Power Supplies

IT6860A Series

Catalog

ITECH-Your Power T est Solution

ITECH-Your Power Test Solution

ITECH ELECTRONICS

ITECH

About ITECH

ITECH is devoted to research and development in power supply technologies in test and measurement. The company specialized over the years and it is skilled in producing high power electronic testing systems, high-performance automated testing systems, power supplies and electronic loads. Our products are widely used by enterprises in all fields. Our products are well known for high performance and quality which are exported to over twenty countries in Europe, North America and Asia.

Quality Policy

ITECH will keep on researching and developing new products to satisfy the diversified application requirements, and supplying perfect quality for your needs through continuous improvements.

Marketing and service

ITECH has branches in mainland China , Taiwan,Korea and USA. We will supply the best products together with the best after-sale service for you.

Vision

The mission of ITECH is to serve the customer requirements. ITECH will be continuously devoted to researching and manufacturing power supplies and power supply testing products, and supply to you high quality products and the best after sale service support through its excellent technology and marketing network .ITECH will be one of your preferred suppliers .

Our customer

ITECH products are widely preferred by customers for the reputation , performance and quality. Our customers including famous companies and institutions in worldwide, such as ABB, Bosch, Intel, LG, Nokia, Siemens, Sony, Fuji, Volkswagen, Ford, Delta, Samsung and Foxcoon and so on .

power supply

Provide you with the most reliable and accurate power supply

ITECH providing you with the most reliable and accurate power supply, meet your research and development testing , production testing requirements.

IT6860A Dual-range power supply

IT6860A power supply is a dual-range output power supply with high resolution of 1mV, 0. 1mA, which can test the products with different power range . You can adjust the voltage /current stepping by pressing the left and right keys to moving the cursor. It supports output timer function and programs by the front panel, which will bring great convenience. Its built-in RS232 and USB communication interfaces make the communication much faster

IT6800 Standard programable power supply

IT6800 series programming power(18V—150V/90W—216W), small size ,high power output, 10mV, 10mA resolution and accuracy , VFD highlight display, optional GPIB/USB/RS232 communication interfaces,of fer free PV6800 PC control software.

IT6500 Auto-rang programmable Power Supply

IT6500 series programmable power supply with 1mV,1mA high resolution and accuracy. IT6500 series products can function in CV or CC mode,integrated voltage sequence according to DIN 40839. It's the best solution for your laboratory tests,production tests and other applications with a small size of 1U.

IT6900A Multi-function programmable power supply

IT6900A series power supply apply auto-range digital technology, enables customers to adjust to the maximum output voltage or current at a fixed power. IT6900A series of power also has the bulit-in RS232/USB/GPIB communication interface.

IT6100 High accuracy programmable power supply

IT6100 series programmable power supply (100W–1200W),0.1mV, 1mA high resolution and high accuracy , ensure your accurate measurements. Up to 20ms rise speed, built-in 5 1/2digit digital voltmeter , can measure additional signals accurately. List mode can edit and carry out the preset voltage waveform independently.

IT6300 Triple output programmable

IT6322 programmable 3 channel power supply is provided with 1mV , 1mA high resolution and high accuracy. High-definition VFD display can display and set the voltage of 3 channels at one time without switching. It greatly simplifies the complex operation of the traditional 3 channel power supply

IT6700 Digital control power supply

The IT6700-series of digital control dc power supplies give you the performance of programmable power supplies without the high price. With the auto–range technology, It offers you the flexible output voltage and current. With high power in a compact unit, the IT6700-series give you excellent performance while saving your space and cost at the same time.

IT6700H High voltage programmable power supply

IT6700H series power supplies are high perforance single-output programmable power supply with communiction interface .This series can output the max voltage or current with a fixed power for customers.

IT7300 Programmable AC power supply

IT7300 series is single phase programmable AC power supply. This series power supply outputs kinds of normal and abnormal AC input to measure essential parameters of products. Its built-in LAN, USB, RS232 communication interface makes your test efficient.

IT6860A High accuracy dual-range power supply

IT6860 series are high performance single output dual range programmable DC power supplies.It built-in USB and RS232 interfaces, supporting fast and stabile programming procedures.With high resolution of 1mV/0.1mA. They are designed to meet the needs of R&D design verification,production testing,QA verifications and other applications.

IT6860A

Feature

- Dual range ouput
- Bright VFD display
- Convenient data entry via knob or numerical key pad
- High accuracy and high resolution
- Low ripple and low noise
- Intelligent fan control, energy conservation, noise reduction
- Output voltage and current values accordance with procedure
- Timer function (0.1~9999.9S)
- Built-in RS232/USB communication interface
- Support SCPI command,compatible IT6800 frame formate protocol

Model	Voltage	Current
IT6861A	20V/8V	5A/9A
IT6862A	32V/12V	3A/6A
IT6863A	72V/32V	1.5A/3A
IT6872A	32V/15V	4A/7A
IT6873A	75V/32V	2A/4A
IT6874A	150V/60V	1.2A/2A

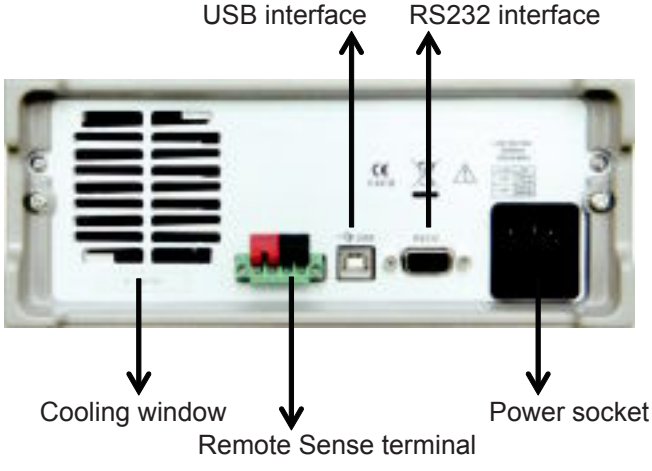
*IT6860B series power supplies have built-in GPIB、RS232 and USB interfaces

Dual-range output

Take IT6862A as an example:
- High voltage range:0-32V,3A
- Low voltage range:0-12V,6A

IT6800A series power supplies give you the flexibility to select from dual output ranges. Normally,if user purchase a 32V/3A/96W power supply,the current working range is limited to 3A.But for IT6862A,user could get a high current working limitation by switch the working range. This feature greatly saves customer's cost.

Rear panel of IT6860A



*Compared to IT6860A series power supplies,IT6860B series has add GPIB interface besides built-in RS232 and USB interface.

ITECH ELECTRONICS
Your Power Test Solution

Specifications

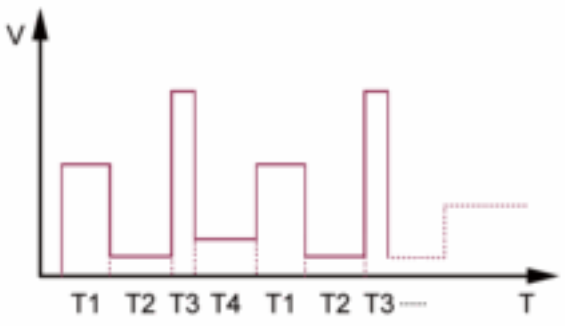
		IT6861A	IT6862A	IT6863A	IT6872A	IT6873A	IT6874A
Output Ratings		0-20V,5A/0-8V,9A	0-32V,3A/0-12V,6A	0-72V,1.5A/0-32V,3A	0-35V,4A/0-15V,7A	0-75V,2A/0-32V,4A	0-150V,1.2A/0-60V,2A
Load Regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+5mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+3mA	≤0.01%+2mA	≤0.01%+2mA
Line Regulation	Voltage	≤0.01%+4mV	≤0.01%+3mV	≤0.01%+3mV	≤0.01%+5mV	≤0.01%+4mV	≤0.01%+4mV
	Current	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+2mA	≤0.01%+3mA	≤0.01%+2mA	≤0.01%+2mA
Setup Resolution	Voltage	1mV	1mV	1mV	1mV	1mV	1mV(<100V) 10mV(≥100V)
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Read Back Resolution	Voltage	1mV	1mV	1mV	1mV	1mV	1mV(<100V) 10mV(≥100V)
	Current	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Setup Accuracy	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
Read Back Accuracy	Voltage	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.04%+8mV	≤0.05%+20mV
	Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA
	DMV	≤2mVp-p/0.5mVrms(20V/5A)	≤3mVp-p/0.5mVrms(32V/3A)	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤5mVp-p/1.5mVrms
Ripple (20HZ-20M)		≤3mVp-p/1mVrms(8V/9A)	≤4mVp-p/1mVrms(12V/6A)	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤3mVp-p/1mVrms	≤5mVp-p/1.5mVrms
	DMA	<9 mArms	<7mArms	<6mArms	<6mArms	<6mArms	<6mArms
	CMA	<1.5uArms	<1.5uArms	<1.5uArms	<1.5uArms	<1.5uArms	<1.5uArms
Up Time	10%-90%	<90ms	<90ms	<90ms	<90ms	<120ms	<150ms
Down Time	90%-10%	<150ms	<200ms	<250ms	<350ms	<450ms	<2s
Dynamic recovery time	Recovery 75mV	<50us	<50us	<50us	<50us	<50us	＜100us
Dimension （W*H*D）	Size	214.5mm*88.2mm*354.6mm					

Output Timer Function

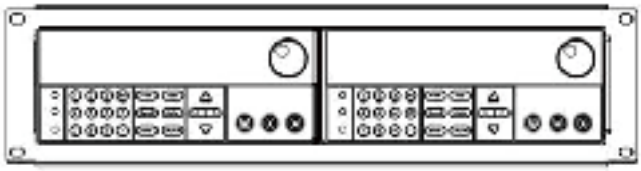
IT6860 series power supplies support output timer function. When you enable the function, the “Timer” indicator will lit on the VFD. When the output is “on”, the output will turn off automatically after the time elapsed

List Mode

List mode allows user to create a sequence of steps, store it into the power supply’s non volatile memory and execute it.The input parameters for generating a list include the name of the list file, the input steps (no more than 150 steps), the step time (the minimum is 100mS) and the value of each step.



19” installation (One unit)



19” installation (Two units)

Standard accessories:

- Power cord
- Test report
- User’s manual

Optional accessories:

- IT-E151 mounting kit

*Note: IT6860A series power supplies have built-in RS232 and USB interfaces.

IT-E121 RS232 Communication interface,with RS232 standard communication cable
IT-E122 USB Communication interface,with USB standardcommunication cable
Applicable models: IT6100, IT6800, IT6322, IT6302, IT8500+, IT8500

IT-E123 RS485 Communication interface,with RS485 interface
Applicable models: IT8500+, IT8500, IT6800, IT6100, IT6322

IT-E133GPIB communication cable, support SCPI protocol
Applicable model: IT6800 series
IT-E134GPIB communication cable, support SCPI protocol
Applicable model: IT8500 series

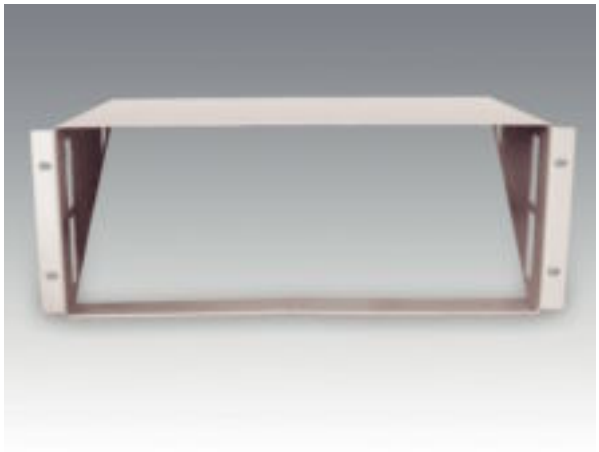
ITECH supply multi optional accessories which satisfy your different need.

IT-E135 GPIB communication cable, support SCPI protocol
Applicable model: IT6100 series, IT6322

IT-E161 0-10V analog interface cable for monitoring and setting
Applicable model: IT6100 series

IT-E162 digital interface calbe for monitoring and setting
Applicable model: IT6100 series

IT-E163 0-10V analog interface cable for monitoring and setting
Applicable model: IT6100 series



IT-E152 rack mount kit
Applicable model:IT8200 and IT6700 series

IT-E151 19 rack mount kit
Applicable model:IT6800，IT8500（model: <1200W），IT6100，IT6800，IT6322 series

IT-E153 rack mount kit
Applicable model:IT8700 series

IT-253 keyboard
Help IT8500 series electronic load to complete Auto-test function
Applicable model: IT8500 series

1/2 2U double units installation picture

ITECH Products Selection Guide

* DC Electronic Load

IT8700 series multi-channel electronic load

Model	Specification
IT8731	80V/40A/200W
IT8732	80V/60A/400W
IT8732B	500V/20A/300W
IT8733	80V/120A/600W
IT8733B	500V/30A/500W
IT8722	80V/20A/250W*CH1 80V/20A/250W*CH2 *1
IT8723	80V/45A/300W CH1 80V/45A/300W CH2 *1
IT8702	Mainframe for four modules
IT8703	Extended frame for four modules

*1: The total power of dual channel for IT8722 is 300W.
*2: IT8731,IT8732,IT8732B,IT8733,IT8733B and IT8722 should be equipped with IT8702.
*3: Main frame equips built-in RS232/USB/GPIB/Ether Net interface.

IT8800 series multi-function input electronic load (standard RS232/USB/GPIB interface)

Model	Specification
IT8811	120V/30A/150W
IT8812	120V/30A/250W
IT8812B	500V/15A/200W
IT8812C	120V/60A/250W
IT8813	120V/60A/750W
IT8813B	500V/30A/750W
IT8814	120V/120A/1500W
IT8814B	500V/60A/1200W
IT8816	120V/240A/3000W
IT8816B	500V/100A/2500W
IT8817	120V/360A/4500W
IT8817B	500V/120A/3600W
IT8818	120V/480A/6000W
IT8818B	500V/150A/5000W
IT8830	120V/500A/10KW
IT8830B	500V/200A/10KW
IT8830H	800V/100A/10KW
IT8831	120V/750A/15KW
IT8831B	500V/300A/15KW
IT8831H	800V/150A/15KW
IT8832	120V/1000A/20KW
IT8832B	500V/400A/20KW
IT8832H	800V/200A/20KW
IT8833	120V/1500A/25KW
IT8833B	500V/500A/25KW
IT8833H	800V/250A/25KW
IT8834B	500V/600A/30KW
IT8834H	800V/300A/30KW
IT8835B	500V/700A/35KW
IT8835H	800V/350A/35KW
IT8836B	500V/800A/40KW
IT8836H	800V/400A/40KW
IT8837B	500V/900A/45KW
IT8837H	800V/450A/45KW
IT8838B	500V/1000A/50KW
IT8838H	800V/500A/50KW
IT8839B	500V/1100A/55KW
IT8839H	800V/600A/55KW

*60KW-600KW is available

IT8500 series single channel electronic load (optional RS232/USB/GPIB interface)

Model	Specification
IT8511	120V/30A/150W
IT8512	120V/30A/300W
IT8512B	500V/15A/300W
IT8512C	120V/60A/300W
IT8513B	500V/30A/600W
IT8513C	120V/120A/600W
IT8514B	500V/60A/1200W
IT8514C	120V/240A/1200W
IT8514F	60V/240A/1200W
IT8515C	120V/240A/1800W
IT8516B	500V/120A/2400W
IT8516C	120V/240A/2400W
IT8516E	120V/240A/3000W
IT8518B	500V/120A/5000W
IT8518C	60V/240A/5000W
IT8518E	60V/240A/6000W
IT8518F	60V/480A/5000W

IT8500+ series upgrade single channel electronic load (optional RS232/USB/GPIB interface)

Model	Specification
IT8511+	120V/30A/150W
IT8512+	120V/30A/300W
IT8512A+	150V/30A/300W
IT8512B+	500V/15A/300W
IT8512C+	120V/60A/300W
IT8513C+	120V/120A/600W
IT8514B+	500V/60A/1500W
IT8514C+	120V/240A/1500W
IT8516C+	120V/240A/3000W

IT8200 series economic electronic load

Model	Specification
IT8211	60V/30A/150W

* DC Power Supply

IT6500 series auto-range programmable DC power supply (standard RS232/USB/GPIB/RS485 interface)

Model	Specification
IT6512 (with Dynamic test and DIN waveform)	80V/60A/1200W
IT6512A	80V/60A/1200W
IT6512D	80V/120A/1600W
IT6513(with Dynamic test and DIN waveform)	150V/30A/1200W
IT6513A	150V/30A/1200W
IT6522A	80V/120A/3000W
IT6523D	160V/120A/3000W
IT6533A	160V/120A/6000W
IT6532A	80V/ 240A/6000W

IT6900A series multi-function programmable power supply (standard RS232/USB/GPIB interface)

Model	Specification
IT6922A	60V/5A/100W
IT6932A	60V/10A/200W
IT6942A	60V/15A/360W
IT6952A	60V/25A/600W
IT6953A	150V/10A/600W

IT6800 series programmable power supply (optional RS232/USB/GPIB interface)

Model	Specification
IT6821	18V/5A/90W
IT6822	32V/3A/96W
IT6823	72V/1.5A/108W
IT6831	18V/10A/180W
IT6832	32V/6A/192W
IT6833	72V/3A/216W
IT6834	150V/1.2A/180W

IT6860A series dual-range programmable power supply (standard RS232/USB interface)

Model	Specification
IT6861A	20V/5A/100W 8V/9A/72W
IT6862A	32V/3A/96W 12V/6A/72W
IT6863A	72V/1 5A/108W 32V/3A/96W
IT6872A	35V/4A/140W 15V/7A/105W
IT6873A	75V/2A/150W 32V/4A/128W
IT6874A	150V/1.2A/180W 60V/2A/120W

IT6860B series dual-range programmable power supply (standard RS232/USB/GPIB interface)

Model	Specification
IT6861B	20V/5A/100W 8V/9A/72W
IT6862B	32V/3A/96W 12V/6A/72W
IT6863B	72V/1.5A/108W 32V/3A/96W
IT6872B	35V/4A/140W 15V/7A/105W
IT6873A	75V/2A/150W 32V/4A/128W
IT6874A	150V/1.2A/180W 60V/2A/120W

IT6100 series high accuracy programmable power supply (optional RS232/USB/GPIB interface)

Model	Specification
IT6151	5.2V/60A/312W
IT6152	20V/27A/540W
IT6153	30V/18A/540W

Model	Specification
IT6154	60V/9A/540W
IT6162	20V/48A/960W
IT6163	30V/32A/960W
IT6164	60V/16A/960W

IT6100B series accuracy programmable power supply (standard RS232/USB/GPIB interface)

Model	Specification
IT6121B	20V/5A/100W
IT6122B	32V/3A/96W
IT6123B	72V/1.2A/86W
IT6132B	30V/5A/150W
IT6133B	60V/2.5A/150W

IT6300 series triple-channel programmable power supply (optional RS232/USB/GPIB interface)

Model	Specification
IT6322	30V/3A/90W*2CH
	5V/3A/15W*1CH

IT6300A series triple-channel programmable power supply (standard RS232/USB interface)

Model	Specification
IT6322A	30V/3A/90W*2CH
	5V/3A/15W*1CH
IT6332A	30V/6A/180W*2CH
	5V/3A/15W*1CH
IT6333A	60V/3A/180W*2CH
	5V/3A/15W*1CH

IT6300B series triple-channel programmable power supply (standard RS232/USB/GPIB interface)

Model	Specification
IT6322B	30V/3A/90W*2CH
	5V/3A/15W*1CH
IT6332B	30V/6A/180W*2CH
	5V/3A/15W*1CH
IT6333B	60V/3A/180W*2CH
	5V/3A/15W*1CH

IT6302 triple-channel programmable power supply
(application: education industry/laboratory/volume demand)

Model	Specification
IT6302	30V/3A/90W*2CH
	5V/3A/15W*1 CH

IT6700 series digital control power supply

Model	Specification
IT6720	60V/5A/100W
IT6721	60V/8A/180W

IT6700H series high voltage programmable DC power supply (standard RS232/USB/GPIB interface)

Model	Specification
IT6723G	600V/5A/850W
IT6723B	150V/20A/850W
IT6723C	32V/110A/850W
IT6723	80V/40A/850W
IT6723H	300V/10A/ 850W
IT6724B	150V/20A/1500W
IT6724C	32V/110A/1500W
IT6724H	300V/10A/1500W
IT6724G	600V/ 5A/1500W
IT6724	80V/40A/1500W
IT6726B	160V/40A/3000W
IT6726H	300V/20A/3000W
IT6726G	600V/10A/3000W
IT6726V	1200V/5A/3000W

*AC Power Supply

IT7300 series AC power supply (standard RS232/USB/LAN interface)

IT7321	300V/3A/300VA
IT7322	300V/6A/750VA
IT7324	300V/12A/1500VA
IT7326	300V/24A/3000VA

ITECH ELECTRONICS
Your Power Test Solution

ITECH -- Your Power Test Solution

Taiwan

TEL:+886-3-6684333 FAX:+886-3-6683152 E-mail:sales@itechate.com.tw

16F， #65 Gaotie 7th Rd., Zhubei City, Hsinchu County 302 Taiwan

China

TEL:+86-25-52415098 FAX:+86-25-52415268 E-mail:sales@itechate.com

108# XiShanqiao Nanlu,Nanjing city,China

USA

Savi Ranch Parkway Yorba Linda,CA 92887 U.S.A. E-mail:usa@itechate.com

Korea

#153-783,Rm601,ByuckSan,GaSan-Dong,Seoul,Korea E-mail:korea@itechate.com